



# XXL DISHWASHER INSTALLATION INSTRUCTIONS

**IMPORTANT!**

Read all of these instructions before installing the dishwasher.

**AUTOMATIC HIGH LOOP**

The drain hose is fastened to the back of the machine at the best height. To eliminate potential drain problems, leave this hose in place.

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SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

## INTRODUCTION

Read these instructions carefully and completely before you install the machine. The installation should be carried out by a qualified person who is familiar with all local codes and ordinances for electrical and plumbing connections.

If a dishwasher is being installed in this area for the first time, most of the cabinet work, plumbing, and electrical has to be done before you move the machine into place.

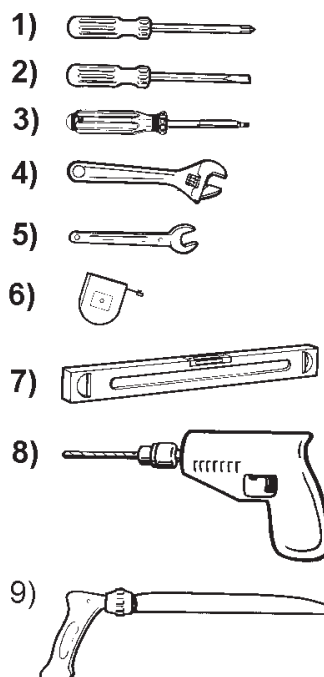
If you are replacing an old dishwasher, you must check the plumbing connection and wiring before you move the new dishwasher into place.

**NOTE: Cosmetic damage must be reported to the ASKO dealer within five days from the date of purchase. As soon as you unpack the dishwasher, thoroughly check it for cosmetic damage.**

## WHAT YOU NEED

### TOOLS

- 1) Phillips No. 2 screwdriver
- 2) Flat blade screwdriver
- 3) Torx screwdriver size T 20
- 4) Adjustable wrenches (if you use copper fittings)
- 5) Open-ended wrench (1/2" [12 mm] or 5/8" [16 mm])
- 6) Tape measure
- 7) Spirit level
- 8) Electric drill with 1- 5/8" drill bit
- 9) Keyhole saw



### MATERIALS

- ◆ Minimum 3/8" OD copper tubing of sufficient length for your installation
- ◆ Shut-off valve and fittings for water supply line

### Tip Guards (optional)

When it is not possible to attach the dishwasher to the cabinet or the underside of the cabinet top, you should install tip guards to prevent the machine from tipping when you open the door.

Refer to page 7 for installation instructions.



### Technical Data

Electricity	120V, 60Hz, 15 amp
Water pressure:	4.2-140 psi, 0.03-1.0 MPa, 0.3-10 Bar
Heating element:	1200 watt
Max loading	1300 watt

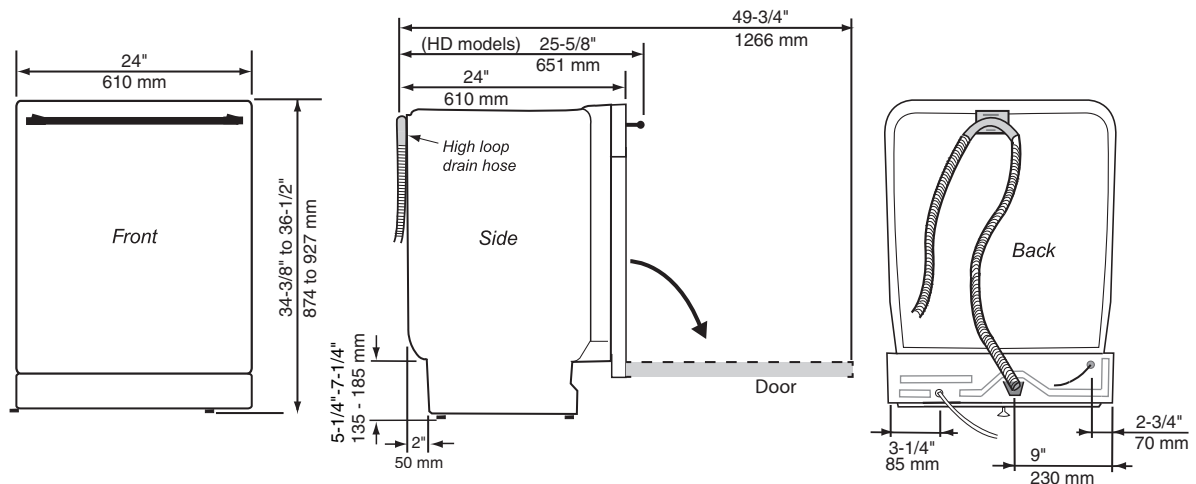
The dishwasher is shipped with the high loop drain hose, inlet hose and electrical cord attached and ready to be connected. **Please do not remove the high loop connection for the drain line.**



## DIMENSIONS

D5112XXL, D5122XXL, D5152XXL, D5132XXL, D5223XXL, D5233XXL, D5253XXL, D5833XXL

		U.S.	Metric
Height (Adjustable)		34-3/8" to 36-1/2"	874 to 927mm
Width (Including fill strips)		24"	610mm
Depth (Includes high loop)		24"	610mm
Depth W/Handle (HD)		25-5/8"	651mm
Depth W/Door Open		49-3/4"	1266 mm
Weight:		104 lb	47 kg



## PREPARING THE LOCATION

The best place for your dishwasher is in the kitchen near the sink. This makes it easier to connect the water and drain supply lines.

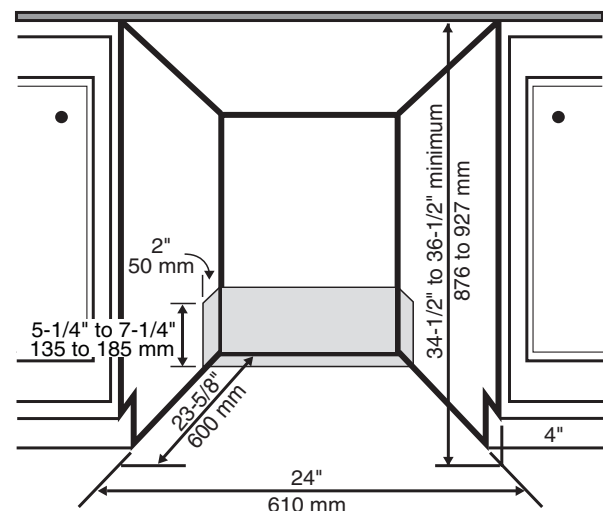
A built-in dishwasher must be enclosed on the top, both sides and the back.

The electrical and water supplies should enter through the area indicated by the shading on the illustration at right. Preferably, they should come through the right side of the machine. The access hole must be round and smooth and no bigger than 2" (50 mm) in diameter.

Note: Maintain a 1/8" (3 mm) minimum clearance between unit and cabinet.

### Cutout Dimensions

	U.S.	Metric
Height	34-1/2" to 36-1/2"	876 to 927 mm
Width	24"	610 mm
Depth	23-5/8"	600 mm



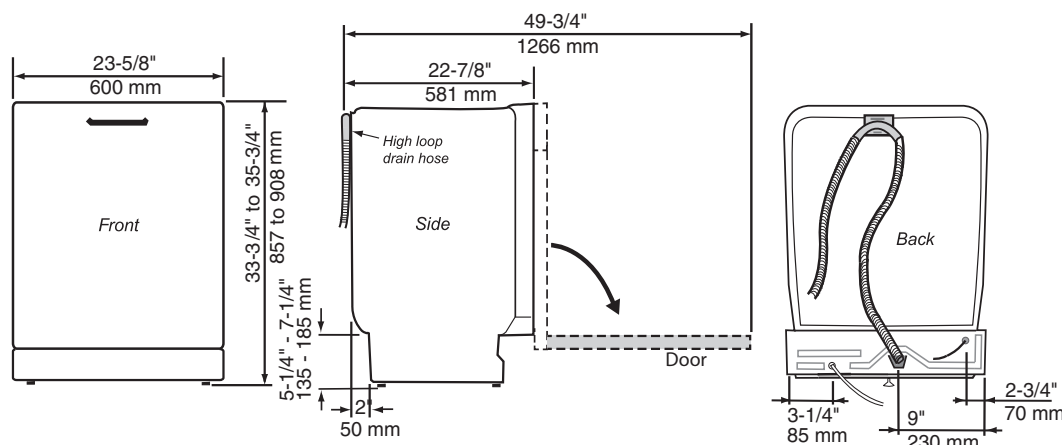
## DIMENSIONS

### UNIT DIMENSIONS D5232XXLFI, D5233XXLFI, D5251XXFI, D5253XXLFI, D5531XXLFI, D5731XXLFI, D5833XXLFI

		U.S.	Metric
Height (Adjustable)		33-3/4" to 35-3/4"	857 to 908 mm
Width		23-5/8"	600 mm
Depth (Includes high loop)		22-7/8"***	581 mm
Depth W/Door Open		49-3/4"	1266 mm
Weight:		108 lb	49 kg

### Technical Data

Electricity	120V, 60Hz, 15 amp
Water pressure:	4.2-140 psi, 0.03-1.0 MPa, 0.3-10 Bar
Heating element:	1200 watt
Max loading	1300 watt



\*If an accessory fill strip is used for FI models, 3/8" (9.5mm) must be added to the dishwasher height and cutout height

\*\*Does not include the depth of a custom or optional door. If an ASKO optional door is used, add 2-1/2" (63.5 mm) to the depth

## CUSTOM FRONT PANELS

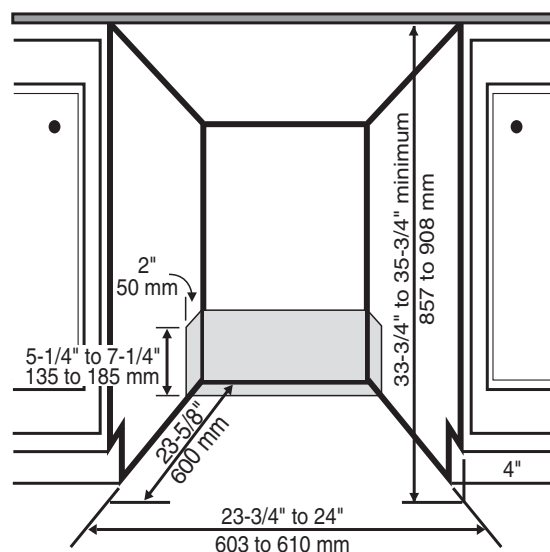
The D5232XXLFI, D5233XXLFI, D5251XXFI, D5253XXLFI, D5531XXLFI, D5731XXLFI and D5833XXLFI can only be installed with a fully-integrated custom door panel that extends from the toe kick to the counter top. A one-piece custom door panel with a curved handle is available (see page 6).

## Cutout Dimensions

	U.S.	Metric
Height*	33-3/4" to 35 3/4"	857 to 908mm
Width	23-3/4" to 24"	603 to 610mm
Depth	23-5/8"	600 mm

**NOTE: Maintain a 1/8" (3mm) minimum clearance between unit and cabinet.**

The electrical and water supplies should enter through the area indicated by the shaded area. Preferably, they should come through the right side of the machine. The access hole must be round and smooth and no bigger than 2" in diameter.



\*If an accessory fill strip is used for FI models, 3/8" (9.5 mm) must be added to the dishwasher height and cutout height.

## CUSTOM DOOR PANEL DIMENSIONS

### FITTING THE D5232XXLFI, D5233XXLFI, D5251XXFI, D5253XXLFI, D5531XXLFI, D5731XXLFI, D5833XXLFI ASKO-MADE OR CUSTOM DOOR PANEL - 4 INCH TOE KICK.

The D5232XXLFI, D5233XXLFI, D5251XXFI, D5253XXLFI, D5531XXLFI, D5731XXLFI and D5833XXLFI can be installed with a fully integrated, buyer supplied custom door panel or ASKO accessory panel that extends from the toe kick to the counter top. The unit comes with everything needed to make installing the door panel easy. The door is predrilled for the panel's mounting screws.

The custom panel should be a minimum of 3/4" (19mm) thick.

#### Items provided with the unit

**Two 3/8" screws (B) for temporarily hanging the panel.**

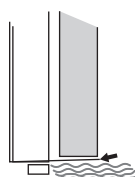
**Six 1-3/4" screws (D) for mounting the custom wooden panel to the dishwasher.**

### INSTALLING THE CUSTOM PANEL OR ASKO ACCESSORY PANEL - 4 INCH TOE KICK

A custom door panel should be installed before the unit is mounted to the cabinet.

Refer to the illustration at the right for instruction references.

1. Fit the handle (A) onto the panel according to the manufacturer's instructions. (NOTE: A handle should be used rather than a knob, because a knob does not provide enough grip.)



**IMPORTANT!** The custom panel must not obstruct the fan exhaust vent; otherwise, moisture from the vent could eventually damage the cabinet and create drying problems.

2. The two short screws (B) go into the back of the panel 15-7/16" (392 mm) from the upper edge of the panel and 10-7/8" (266 mm) from the center of the panel. Insert the short screws into the panel, leaving 1/8" (3 mm) of space between the screw head and the panel.

3. Hook the panel screws (B) into the keyholes (C) on the dishwasher door.

4. Slide the panel to the left until it is centered in the opening and secure the screws.

5. Open the door and use the six screws (D) supplied to secure the panel to the door.

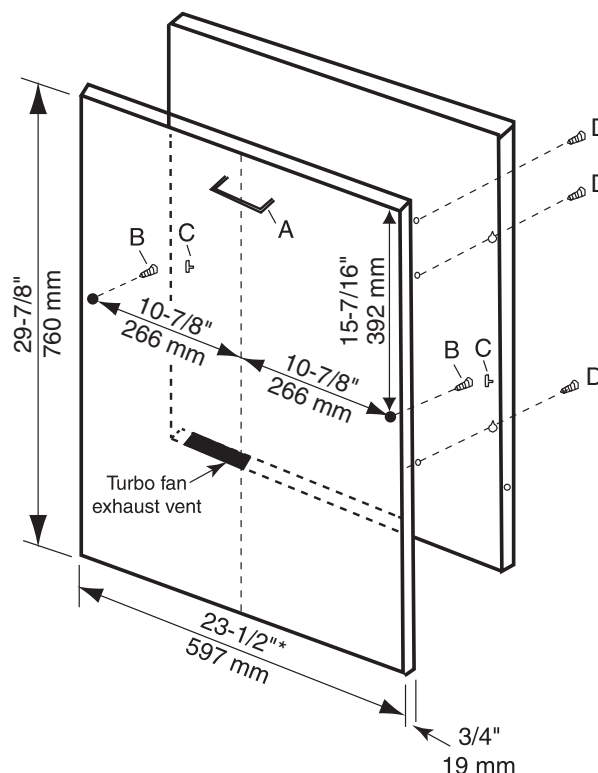
#### NOTE:

**If the door panel weighs more than 15 pounds, you may need to order the heavy-duty door springs.**

\*Max panel width cannot exceed cutout dimensions less 1/8" (2.5mm) reveal on each side.

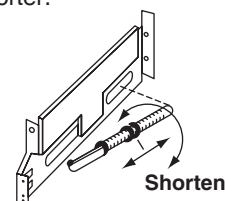
### Custom Panel Dimensions

Width	23-1/2" (597mm)*	
Height	29-7/8" (760 mm)	Measured from the top of the panel to lower edge of the kitchen cabinet.
Weight:	Up to 15 lbs. Up to 20 lbs. with accessory spring.	
Thickness:	3/4" (19mm)	



### ADJUSTING THE DOOR SPRINGS

Before you push the dishwasher into the cabinet opening, test the door to make sure it stays in place at any angle. If it tends to fall down, pull out the machine and adjust the tension of the door springs on the sides of the machine by moving them one hole farther back or by twisting the spring to make it shorter.

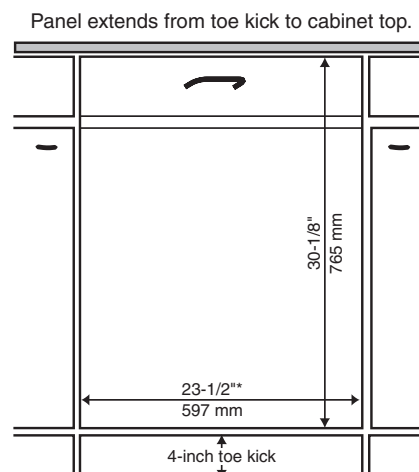


# D5233XXLFI, D5253XXLFI, D5833XXLFI DOOR PANEL INSTALLATION OPTIONS

## 4-INCH TOE KICK INSTALLATIONS

Custom panels that extend to the cabinet top

The preferred installation option for a 4" toe kick is to extend the custom panel to the cabinet top (as illustrated). A one-piece ASKO accessory panel with a curved handle is available for 4-inch toe kick installations.



## XLFI TRIM KIT INSTALLATION OPTIONS

ASKO XLFI dishwashers can be installed either with or without accessory fill strips depending on the type of installation. If the dishwasher cutout has been cut to European widths of 23-5/8", the unit won't require fill strips. If the dishwasher cutout is a standard 24" wide, we have fill strips that make the unit 24" wide.

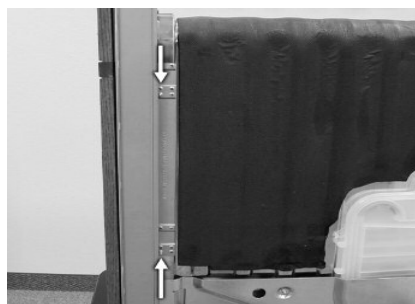
### ASKO ACCESSORY PANEL INSTALLATION

The ASKO accessory fill kit 8077317-95 which includes the counter saver fill strip and both side fill strips should be installed in the back mounting holes on the fill kit.



### CUSTOM WOOD PANEL INSTALLATION

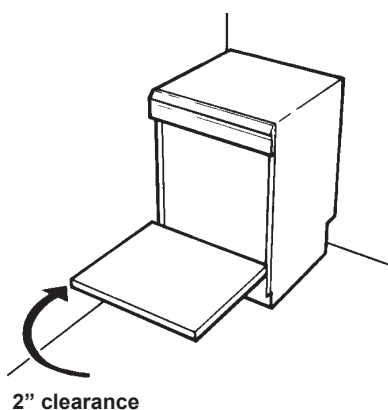
The ASKO accessory fill kit 8078982-95 which includes the counter saver fill strip and both side fill strips should be installed in the front mounting holes on the fill kit. Make the custom wood panel the width of the dishwasher cutout minus 1/8" reveal on each side.



\*Max panel width cannot exceed cutout dimensions less 1/8" (2.5mm) reveal on each side.

## CORNER INSTALLATION

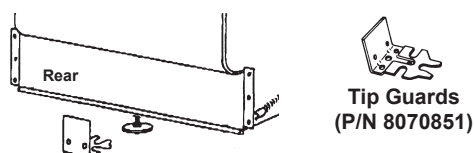
If the dishwasher is installed in a corner, there must be a minimum clearance of 2" (50 mm) from the side wall so the door can open.



## INSTALLING THE TIP GUARDS (OPTIONAL)

When it is not possible to fasten the dishwasher to the cabinet, you should install a tip guard to prevent the machine from tipping when the door is opened. The tip guards can be attached either to the floor or the wall.

The tip guard should be mounted behind the machine, 18-1/2" (470 mm) from the front of the machine centered in the width of the cutout opening. (Note: This measurement could vary, depending on the thickness of the custom panel, if any.)



### NOTE:

We recommend that you install tip guards when it isn't possible to fasten the dishwasher to the cabinet.

## WATER SUPPLY

### WARNING!!

**Plumbing connections must comply with applicable sanitary, safety and plumbing codes in your area.**

The machine can be connected to either a hot or cold water supply. If a cold water supply is used, the washing times will be longer but the performance will not be affected.

The dishwasher comes with a 6-foot PEX water supply line that has a 3/8" NPT female connection.

After determining where the water supply line will enter under the sink, drill a 1 5/8" to 2" (41mm to 50mm) access

hole and run the line to the approximate inlet valve location shown in the figure below. The water line inlet valve is on the right rear of the machine.

For service convenience, a shut-off valve (not supplied) should be installed in the supply line in an easily accessible location, such as, beneath the sink.

It is important that the water supply line and the shut-off valve have a sufficient flow volume. At least 3 gallons (12 liters) per minute must be able to pass through the line. The water pressure should be 4.2-140 psi.

## EASYINSTALL CONNECTIONS

### PEX tubing with 3/8" compression fitting

PEX tubing has a 95-year spec life. Fits American dishwasher water supply valves. **Be sure to install the O-Ring which is attached to the PEX tubing in a plastic bag**



### Drain hose boot

Ready to be cut to desired drain connection. Only one clamp required.



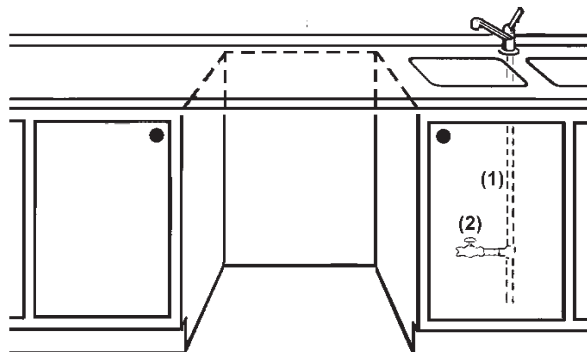
### Electrical cord

120 volts, 15 amp cord is supplied with the dishwasher.



### WARNING!

In order to prevent heat damage to the inlet valve, all solder connections must be made before the water line is connected to the dishwasher.



1. Water supply
2. Water supply valve to dishwasher (not supplied)

### NOTE:

Be sure to run the PEX tubing through the hole to sink compartment before moving the dishwasher into position.

### Warning!

Do not use an extension cord for this appliance.



## DRAIN CONNECTIONS

ASKO provides a 7/8" (22 mm) diameter corrugated drain hose which is connected to the back of the unit to form a high loop. If additional drain hose is needed, please purchase an ASKO drain hose extension kit with a 7/8" (22mm) copper tube.

### NOTE:

Do not use any fittings anywhere in the drain line that are less than 7/8" (22 mm) ID.

The access hole for the drain line should be 1-5/8" (41 mm)-2" (50mm) max.

The end of the drain line is 1/2" (12 mm), but it is adjustable to 7/8", 3/4", 5/8" (22mm, 19 mm, and 16 mm). If the drain connection is larger than 1/2" (12 mm), you can easily cut the drain line to fit the connection.



The illustrations to the right show three ways to connect the drain supply line.

### THE HIGH LOOP

The high loop is necessary for proper draining. Therefore, all ASKO dishwashers have the drain hoses attached to the drain pump and fastened to the top back of the unit, as illustrated. This gives the drain hose an automatic high loop, which is necessary for proper draining. The drain hose is fastened at the best high loop height.



**To eliminate potential drain problems, simply leave this hose in place.**

**DO NOT REMOVE THE HIGH LOOP!**

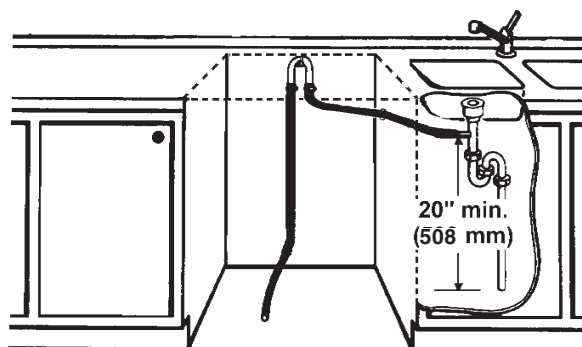
### IMPORTANT THINGS TO REMEMBER:

- ◆ Failure to provide the proper drain connection height (minimum of 20" (508 mm) above the bottom of the dishwasher base) or a 20" (508 mm) high loop will result in improper drainage, which will damage the machine.
- ◆ No part of the drain hose should be higher than 35" (889 mm) from the bottom of the dishwasher.
- ◆ The drain hose can be extended to a maximum length of 10 feet (3048 mm). Joints and jointed tubes, if any, must have a minimum 5/8" (16 mm) ID.
- ◆ If the drain line is going to be connected to a waste disposer, be sure to remove the knockout or plug from the fitting on the disposer before connecting the drain line.
- ◆ Do not use fittings smaller than 5/8" (16 mm); otherwise the water may not drain properly.

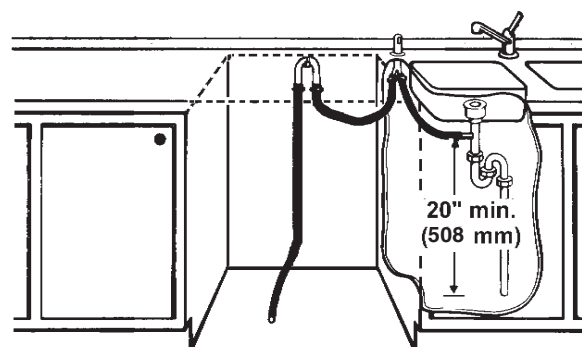
When the installation is ready, open the supply valve and let the pressure act for a while. Then check that all connections are tight and there are no leaks.

## THREE WAYS TO INSTALL DRAIN CONNECTIONS

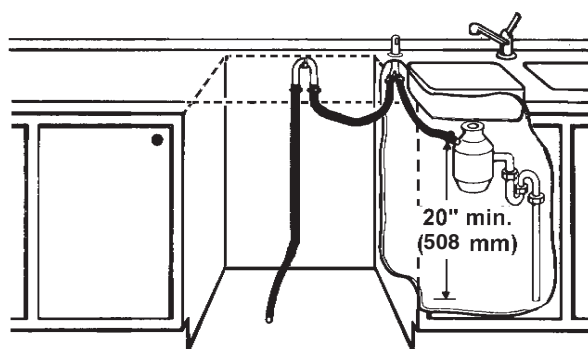
### A) Typical connection to sink plumbing before trap (high loop drain)



### B) Connection to air gap then to the trap



### C) Connection to waste disposer with air gap



### NOTE:

Don't forget to remove the knockout or plug from the disposer fitting.



## ELECTRICAL CONNECTIONS

### WARNING!

Before working on wiring for any electrical appliance, be sure the electrical power has been turned off at the breaker/fuse box.

### WARNING!

Disconnect electrical power supply and place a tag at the disconnect switch indicating that you are working on the circuit.

### WARNING!

Electrical and grounding connections must comply with the applicable portions of the national electrical code and/or other local electrical codes.

The dishwasher comes with an electrical cord for 120 volts, 15 amp supplied. This cord should be plugged into the 120 volt outlet under the sink.



If the cord is not long enough, or if a hard-wire installation is needed, follow instructions on page 10.

## GROUNDING INSTRUCTIONS

This unit must be grounded to operate properly. It must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead of the appliance.

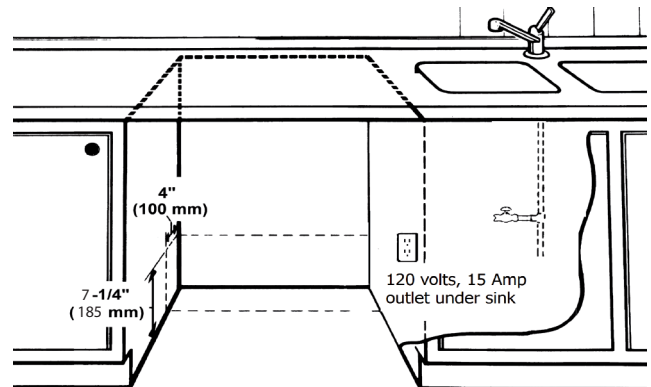
Damage to the dishwasher could occur if it is not properly grounded.

### WARNING!

Make sure the water supply line, drain line and branch circuit wiring do not touch any exposed terminals of dishwasher wiring.

### Warning!

Do not use an extension cord for this appliance.



### NOTE:

Access holes should be 1-5/8" to 2" (41 mm to 50 mm) in diameter with no sharp edges.

## PREPARING THE DISHWASHER FOR INSTALLATION

At this point the styrofoam, plastic wrap, and the wood pallet (base) should be removed from the dishwasher. Now is an excellent time to inspect for any shipping damage. Should you find any damage, you should report it to your dealer or builder *immediately*.

Be sure to remove the toe kick and toe kick insulation (only on certain models) from the top of the dishwasher.

### SLIDES FOR LEGS

The unit comes with white plastic slides for the legs to protect the kitchen floor from being damaged when you slide the unit into place. The slides simply snap onto the bottom of the legs.

Protective slides for legs simply snap onto the bottom of the legs.

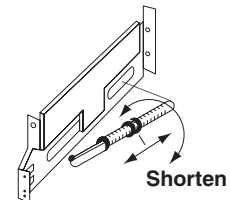


### TRIM STRIP INSTALLATION

Install the optional Fill kit seen on page 6 if desired (FI models only). Use the screws that come with the fill kit to attach the side and top trim pieces to the unit.

### ADJUSTING THE DOOR SPRINGS

Before you install the unit into the cabinet, open the door to make sure it stays open at any angle. If it tends to fall down or snap shut, pull out the machine and tension the door springs on the sides of the machine by moving them one hole farther back or by twisting the spring to make it shorter.



The accessory door panel or custom wood panel must be installed on FI dishwashers to properly adjust tension on the door springs. If that doesn't resolve the problem, you may need to purchase the heavy-duty door springs (part number 8076163-77).

### NOTE:

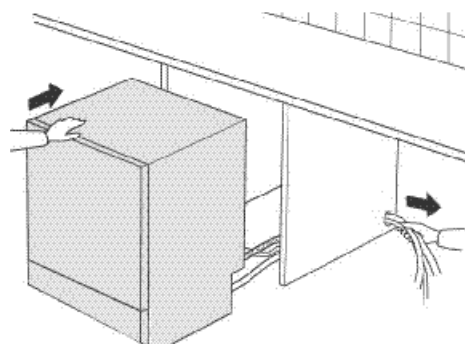
If the door panel weighs more than 15 pounds, you may need to order the heavy-duty door springs. (See page 5.)

## MOVING THE MACHINE INTO PLACE

### WARNING!

Make sure you put the protective slides on the legs to prevent damaging the floor when you slide the unit into place (see page 9).

1. Position the machine in front of the cabinet opening.
2. Make the height adjustment while the dishwasher is in front of the opening.
3. Pull out the drain hose to ensure there are no sharp bends.
4. Start to feed water and drain lines and electric cord (if necessary) into the access hole in the cabinet.
5. Gently slide the unit into the dishwasher opening. As you do this, feed the drain line and inlet hose into the access hole in the side of the cabinet.



As you slide the unit into place, feed the drain line and inlet hose into the access hole in the side of the cabinet.

### Warning!

Be careful of sharp edges.

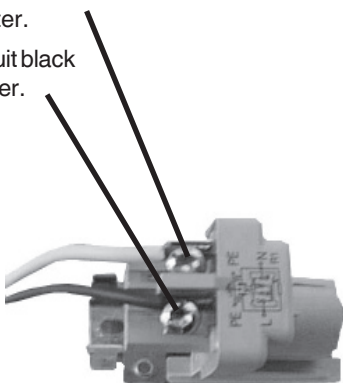
## CONNECTING THE ELECTRIC CABLE

If the cord is not long enough, or if a hard-wire installation is needed, follow the steps below to complete the electrical connection.

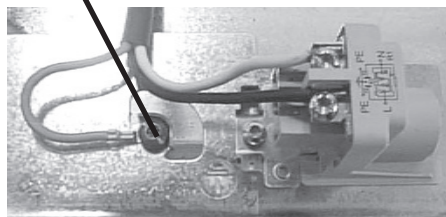
### WARNING!

Before starting this procedure, be sure the power is turned off at the breaker/fuse box.

1. Connect supply cable with a UL-listed strain relief bushing (if nonmetallic cable is to be used).
2. Connect branch circuit white lead to **N** lead on filter.
3. Connect branch circuit black lead to **L** lead on filter.



4. Connect ground wire to ground connection screw on the bottom.



### NOTE:

When doing a hard-wire installation, you must remove the supplied power cord.

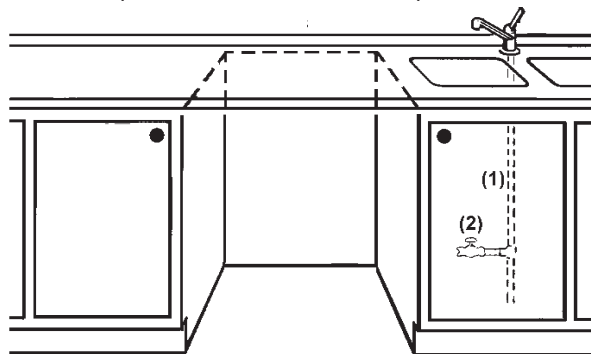
## CONNECTING THE WATER SUPPLY

In order to prevent heat damage to the inlet valve, all solder connections must be made before the water supply line is connected.

Flush the water supply line prior to connecting it to the water fill tube.

The unit has a float switch in the base pan to protect against flooding. If the inlet valve connection is not seated properly, water may leak into the base pan and activate the float switch.

It is important that the water supply line and the shut-off valve have a sufficient flow volume. At least 3 gallons (12 liters) per minute must be able to pass through the line. The water pressure should be 4.2-140 psi.



- (1) Water supply
- (2) Water supply valve (not supplied)

### NOTE:

Be sure to run the PEX tubing through the hole to sink compartment before moving the dishwasher into position.

### TESTING FOR LEAKS

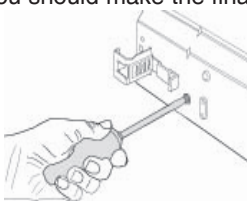
1. Turn on the water supply and check for leaks.
2. Turn the power on at breaker/fuse box and test the dishwasher operation by running a Rinse cycle. (This should take about four minutes.)
3. Turn off the electrical power and check for leaks under the dishwasher and sink.
4. Make sure that no kinks have developed in the drain lines.

If there are no leaks and the dishwasher seems to be working properly, continue with the installation.

## ADJUSTING THE LEVELING LEGS

Now that all the connections are made and the machine is in place under the cabinet, you should make the final height adjustment.

1. You should set the rear foot first. To do this, use a screwdriver to rotate the adjusting screw on the bottom front of the machine. Turn the screw clockwise to raise the foot and counter clockwise to lower it.



2. Using a 5/8" (16 mm) wrench, adjust the locking nuts until the machine is level. (The machine may have an inclination of 3/16" (5mm) maximum without affecting its performance.)
3. When the feet are properly adjusted, tighten the locking nuts to the base pan.



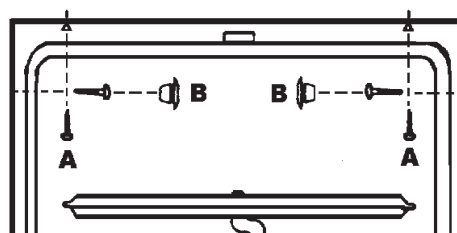
## FASTENING THE DISHWASHER TO THE CABINET

### NOTE:

If you want to mount a wooden door or a custom panel. Do this before fastening the dishwasher to the cabinet! See chapter "Fitting custom door panel"

It's necessary to fasten the dishwasher to the cabinet so it won't tilt when the door is opened or if something heavy is placed on the door. Use only the stainless steel screws provided with the machine.

1. Use option A for U.S. or European standard installations. Use option B only for European standard installations, or U.S. installations where there is a hard counter-top such as tile or marble.
2. Cover the screw heads with the plastic plugs provided with the machine.
3. When the machine is properly attached, check that the feet are tight against the floor and that the machine is level.



### NOTE

When it is not possible to attach the dishwasher to the cabinet, you should install tip guards. (See "Tip Guards" on page 2.):

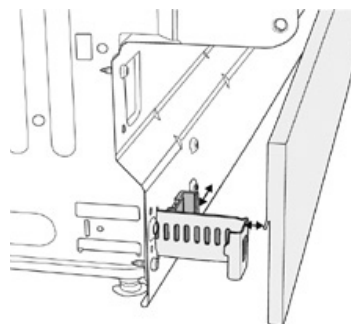
### NOTE:

Be sure to use white spacers to keep from over-tightening the mounting screws.

## INSTALLING THE TOE KICK

### SETTING THE TOE KICK DEPTH

1. Press the grey catches towards each other to release the toe kick brackets.
2. Pull out the toe kick brackets as far as the installation requires to provide the proper toe kick depth.
3. Once the toe kick brackets are at the appropriate depth, press the grey catches away from each other to lock the toe kick brackets in place.
4. The back side of the toe kick has hooks that will hang the toe kick on the toe kick brackets. Lift the toe kick up and let the hooks slide onto the brackets as you lower the toe kick to the floor.



## INSTALLATION CHECKLIST

### ASKO - DISHWASHER

#### Appliance Installation Checklist

- Remove packaging and check for cosmetic damages. ☐
- Remove the information packets from inside the dishwasher. ☐
- Attach any accessories as required by the installation. Fill strips, wooden door panels, accessory door panels... ☐
- Attach the drain line using the largest section of the disposer boot allowable. Leave the high loop in place. ☐
- Attach the PEX fill hose. Don't forget to use the O-ring. ☐
- Plug the dishwasher into the wall. ☐
- Turn on the water and check the fill line connections for leaks. ☐
- Slide the unit into the cabinet and level the machine front to rear, and left to right. ☐
- Mount the unit to the cabinet. ☐
- Turn the power to the unit on and start a cycle. Make sure there are no drain leaks. ☐
- Show the customer their warranty card, and help them locate the model and serial number on the unit. ☐
- Leave all user books for consumer. ☐

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## NOTES

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